

Serial No.: 09/533,342

REMARKS

Claims 1-24 are pending in the application. Claim 21 has been amended herein. Favorable reconsideration of the application, as amended, is respectfully requested.

I. ALLOWABLE SUBJECT MATTER

Applicant acknowledges with appreciation the allowance of claims 1-20. Moreover, applicant notes with appreciation the indicated allowability of claims 23 and 24. Claims 23 and 24 will also be in condition for allowance upon being amended to independent form.

II. REJECTION OF CLAIMS 21-22 UNDER 35 USC §102(e)

Claims 21-22 stand rejected under 35 USC §102(e) based on newly cited *Kim* (USP 6,049,361). Withdrawal of the rejection is respectfully requested for at least the following reasons.

Claim 21 has been amended herein to recite more clearly the operation of the selection circuit. Specifically, the selection circuit identifies whether the carrier signal is modulated in accordance with the first modulation method or the second modulation method. The selection circuit then provides a gain control signal to the input amplifier to amplify the carrier signal with either the first amplifier gain setting or the second amplifier gain setting. Notably, whether the selection circuit causes the carrier signal to be amplified in accordance with the first amplifier gain setting or the second amplifier gain setting is *based on the modulation method identified by the selection circuit*.

Kim describes an automatic gain control (AGC) circuit for a high definition television (HDTV) receiver. As is shown in Fig. 1 of *Kim*, the automatic gain control circuit 200 receives the HDTV signal from the A/D converter 104, and the HDTV signal from the match filter 108. The match filter 108, as is known, matches a demodulated baseband signal output from the DFPLL 106 to a pre-transmission signal.

Accordingly, the AGC circuit 200 receives the HDTV signal as received by the television receiver (from A/D converter 104), and receives the HDTV signal matched to the received HDTV signal (from the match filter 108). Fig. 3 of *Kim* illustrates the AGC

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circuit 200 in detail. *Kim* describes how a non-coherent AGC signal generator 210 is operative on the HDTV signal from the A/D converter 104 and includes a first gain controller 214. (Col. 3, Ins. 51-59). A coherent AGC signal generator 220 is operative on the HDTV signal from the match filter 108 and includes a second gain controller 225. A selector 230 selects the output signal from the non-coherent AGC signal generator 210 or the coherent AGC signal generator 230. The selector 230 selects an output signal according to the segment synchronizing signal. When the segment synchronizing signal is correctly detected in the synchronizing signal detector 112, the selector 230 selects the output signal of the coherent AGC signal generator 220. (See, e.g., Col. 5, Ins. 18-25).

Thus, it will be appreciated that the present invention as recited in amended claim 21 is quite different from that which is taught in *Kim*. For example, the selector 230 in *Kim* selects the first gain controller 214 or the second gain controller 225 based on whether the segment synchronizing signal is correctly detected. The selector 230 does *not* select between the first gain controller 214 or the second gain controller 225 based on the particular modulation method identified by the selector as recited in amended claim 21.

In fact, there isn't even different modulation methods to detect in *Kim*. Both the output of the A/D converter 104 and the output of the match filter 108 are standard HDTV signals. The only difference is one has been matched by the match filter 108. It is clear that the selector 230 in *Kim* is *not* selecting between the first gain controller 214 or the second gain controller 225 based on the particular modulation method identified by the selector as recited in amended claim 21.

For at least the above reasons, withdrawal of the rejection is respectfully requested.

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III. REJECTION OF CLAIMS 21-22 UNDER 35 USC §103(a)

Claims 21-22 stand rejected under 35 USC §103(a) based on *Faugeron*. This rejection is respectfully traversed for at least the following reasons.

Claim 21, as amended, emphasizes that the selection circuit *analyzes the carrier signal and automatically* identifies whether the carrier signal is modulated in accordance with the first modulation method or the second modulation method. The selection circuit then provides a gain control signal to the input amplifier to amplify the carrier signal with either the first amplifier gain setting or the second amplifier gain setting based on the modulation method identified by the selection circuit.

The Examiner argues that the switch 7 in *Faugeron* represents a selection circuit as claimed. While applicant disagrees with such an interpretation, claim 21 is nevertheless amended to make more clear that the selection circuit of claim 21 is *analyzing the carrier signal and automatically* identifying whether the carrier signal is modulated in accordance with a first modulation method or a second modulation method.

The position of switch 7 in *Faugeron* is changed manually, by the user, to determine whether the user listens to AM radio or FM radio. The switch 7 in *Faugeron* does not in any way analyze the carrier signal to identify automatically whether the carrier signal is modulated according to AM or FM modulation. Rather, the switch 7 in *Faugeron* simply configures the radio to demodulate AM signals when the user places the switch 7 in the AM position, and to demodulate FM signals when the user places the switch 7 in the FM position.

Thus, *Faugeron* does not teach or suggest the selection circuit of claim 21 that *analyzes the carrier signal and automatically* identifies whether the carrier signal is modulated in accordance with a first modulation method or a second modulation method. Withdrawal of the rejection is respectfully requested.

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IV. CONCLUSION

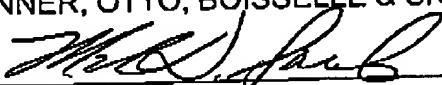
Accordingly, all claims 1-24 are believed to be allowable and the application is believed to be in condition for allowance. A prompt action to such end is earnestly solicited.

Should the Examiner feel that a telephone interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Should a petition for an extension of time be necessary for the timely reply to the outstanding Office Action (or if such a petition has been made and an additional extension is necessary), petition is hereby made and the Commissioner is authorized to charge any fees (including additional claim fees) to Deposit Account No. 18-0988.

Respectfully submitted,

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